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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT 02	CA/Capius enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	3	OCT 19	BEILSTEIN updated with new compounds
NEWS	4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	5	NOV 19	WPIX enhanced with XML display format
NEWS	6	NOV 30	ICSD reloaded with enhancements
NEWS	7	DEC 04	LINPADOCDB now available on STN
NEWS	8	DEC 14	BEILSTEIN pricing structure to change
NEWS	9	DEC 17	USPATOLD added to additional database clusters
NEWS	10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	11	DEC 17	DGENE now includes more than 10 million sequences
NEWS	12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	13	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	14	DEC 17	CA/Capius enhanced with new custom IPC display formats
NEWS	15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	16	JAN 02	STN pricing information for 2008 now available
NEWS	17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	19	JAN 28	MARPAT searching enhanced
NEWS	20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	22	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	23	FEB 08	STN Express, Version 8.3, now available
NEWS	24	FEB 20	PCI now available as a replacement to DPCI
NEWS	25	FEB 25	IFIREF reloaded with enhancements
NEWS	26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	27	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS EXPRESS	FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:09:23 ON 30 MAR 2008

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.94	2.94

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 12:17:26 ON 30 MAR 2008

69 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s Dehalococcoides and remediat?

```

2  FILE AGRICOLA
1  FILE ANABSTR
2  FILE ANTE
5  FILE AQUALINE
2  FILE AQUASCI
3  FILE BIOENG
19 FILE BIOSIS
8  FILE BIOTECHABS
8  FILE BIOTECHDS
2  FILE BIOTECHNO
13 FILE CABA
154 FILE CAPLUS
4  FILE CEABA-VTB
3  FILE DGENE
6  FILE DISSABS
10 FILE EMBASE
13 FILE ESBIODASE
3  FILE GENBANK
3  FILE IFIPAT
3  FILE LIFESCI
9  FILE MEDLINE
8  FILE PASCAL
2  FILE PROMT
16 FILE SCISEARCH
45 FILE TOXCENTER
19 FILE USPATFULL
5  FILE USPAT2
5  FILE WATER
2  FILE WPIDS
68 FILES SEARCHED...
2  FILE WPINDEX

```

30 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L1 QUE DEHALOCOCCOIDES AND REMEDIAT?

```

=> s l1 and halogen?
    1 FILE ANABSTR
    1 FILE BIOENG
    1 FILE BIOSIS
    2 FILE BIOTECHABS
    2 FILE BIOTECHDS
   10 FILE CAPLUS
    1 FILE CEABA-VTB
    3 FILE DGENE
    2 FILE EMBASE
    2 FILE ESBIODBASE
    3 FILE IFIPAT
    1 FILE LIFESCI
    1 FILE MEDLINE
    2 FILE PASCAL
    3 FILE SCISEARCH
    4 FILE TOXCENTER
   13 FILE USPATFULL
    4 FILE USPAT2
64 FILES SEARCHED...
    2 FILE WPIDS
    2 FILE WPINDEX

20 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

```

L2 QUE L1 AND HALOGEN?

```

=> s L2 and BAV1
    1 FILE BIOTECHABS
    1 FILE BIOTECHDS
    1 FILE CAPLUS
    3 FILE DGENE
    1 FILE IFIPAT
    2 FILE USPATFULL
    1 FILE WPIDS
    1 FILE WPINDEX

8 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

```

L3 QUE L2 AND BAV1

```

=> s L2 and (chloroethene or vinyl halide or haloalkane)
    1 FILE ANABSTR
    1 FILE BIOENG
    1 FILE BIOSIS
    2 FILE BIOTECHABS
    2 FILE BIOTECHDS
    1 FILE CAPLUS
    1 FILE EMBASE
    1 FILE ESBIODBASE
    1 FILE IFIPAT
    1 FILE LIFESCI
    1 FILE MEDLINE
    1 FILE PASCAL
51 FILES SEARCHED...
    1 FILE SCISEARCH
    2 FILE TOXCENTER
    9 FILE USPATFULL
    4 FILE USPAT2
    1 FILE WPIDS
    1 FILE WPINDEX

```

18 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L4 QUE L2 AND (CHLOROETHENE OR VINYL HALIDE OR HALOALKANE)

=> s L4 and (vinyl chloride or dichloroethene)

1 FILE ANABSTR
1 FILE BIOENG
1 FILE BIOSIS
2 FILE BIOTECHABS
2 FILE BIOTECHDS
1 FILE CAPLUS
1 FILE EMBASE
1 FILE ESBIODBASE
1 FILE IFIPAT
1 FILE LIFESCI
1 FILE MEDLINE
1 FILE PASCAL
1 FILE SCISEARCH
2 FILE TOXCENTER
9 FILE USPATFULL
4 FILE USPAT2

63 FILES SEARCHED...

1 FILE WPIOS
1 FILE WPINDEX

18 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L5 QUE L4 AND (VINYL CHLORIDE OR DICHLOROETHENE)

=> file anabstr bioeng biosis biotechabs biotechds caplus embase esbiobase ifipat
lifesci medline pascal scisearch toxcenter uspatfull uspat2
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 5.85 8.79

FILE 'ANABSTR' ENTERED AT 12:23:06 ON 30 MAR 2008
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FILE 'USPATFULL' ENTERED AT 12:23:06 ON 30 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:23:06 ON 30 MAR 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 15
L6 28 L5

=> dup rem l6
PROCESSING COMPLETED FOR L6
L7 11 DUP REM L6 (17 DUPLICATES REMOVED)

=> d l7 1-11

L7 ANSWER 1 OF 11 IFIPAT COPYRIGHT 2008 IFI on STN DUPLICATE 1
AN 11449219 IFIPAT;IFIUDB;IFICDB
TI DEHALOCOCCOIDES ISOLATE FOR BIOREMEDIATION
IN Loeffler Frank
PA Georgia Tech Research Corp (20946)
PI US 2007099284 A1 20070503
AI US 2004-559993 20040610
WO 2004-US19000 20040610
20051207 PCT 371 date
20051207 PCT 102(e) date
PRAI US 2003-477799P 20030610 (Provisional)
FI US 2007099284 20070503
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
ED Entered STN: 9 May 2007
Last Updated on STN: 13 Jun 2007
CLMN 14
GI 3 Figure(s).
FIG. 1A-C depicts micrographs of isolate BAV1 using (A) epifluorescence
and (B-C) scanning electron microscopy.
FIG. 2 depicts Terminal Restriction Fragment Polymorphisms (TRFLP)
digestion profiles of the PCR-amplified 16S rRNA gene from a culture of
bacterium BAV1.
FIG. 3A-B depicts (A) the increase in 16S rRNA gene copies as determined
by real-time (RTm) PCR (closed circles) during the reductive
dechlorination of VC (closed triangles) to ethene by a culture of

bacterium BAV1, and (b) 16S rRNA gene copies of bacterium BAV1 after completely dechlorinating different amounts of VC.

L7 ANSWER 2 OF 11 USPATFULL on STN DUPLICATE 2
AN 2005:302826 USPATFULL
TI Halogenated solvent remediation
IN Sorenson, Kent S. JR., Denver, CO, UNITED STATES
PA North Wind, Inc. (U.S. corporation)
PI US 2005263454 A1 20051201
US 7141170 B2 20061128
AI US 2005-42350 A1 20050124 (11)
RLI Continuation of Ser. No. US 2004-853899, filed on 25 May 2004, ABANDONED
DT Utility
FS APPLICATION
LN.CNT 1574
INCL INCLM: 210/610.000
INCLS: 405/128.450; 210/747.000
NCL NCLM: 210/610.000
NCLS: 210/747.000; 405/128.450
IC [7]
ICM C02F003-00
IPCI C02F0003-00 [ICM,7]
IPCI-2 C02F0003-00 [I,A]
IPCR C02F0003-00 [I,C]; C02F0003-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 11 USPATFULL on STN
AN 2005:171268 USPATFULL
TI Nucleic acid fragments for the identification of dechlorinating bacteria
IN Ebersole, Richard C., Wilmington, DE, UNITED STATES
Hendrickson, Edwin, Hockessin, DE, UNITED STATES
PI US 2005148015 A1 20050707
AI US 2005-69442 A1 20050301 (11)
RLI Division of Ser. No. US 2002-61071, filed on 29 Jan 2002, GRANTED, Pat.
No. US 6894156 Continuation-in-part of Ser. No. US 2000-548998, filed on
14 Apr 2000, GRANTED, Pat. No. US 6797817
PRAI US 1999-129511P 19990415 (60)
DT Utility
FS APPLICATION
LN.CNT 2754
INCL INCLM: 435/006.000
INCLS: 435/252.100; 536/023.700; 435/262.500
NCL NCLM: 435/006.000
NCLS: 435/252.100; 435/262.500; 536/023.700
IC [7]
ICM C12Q001-68
ICS C07H0021-04; C12N001-20; C12S001-00
IPCI C12Q0001-68 [ICM,7]; C07H0021-04 [ICS,7]; C07H0021-00 [ICS,7,C*];
C12N0001-20 [ICS,7]; C12S0001-00 [ICS,7]
IPCR C07H0021-00 [I,C*]; C07H0021-04 [I,A]; C12N0001-20 [I,C*];
C12N0001-20 [I,A]; C12Q0001-68 [I,C*]; C12Q0001-68 [I,A];
C12S0001-00 [I,C*]; C12S0001-00 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 11 USPATFULL on STN
AN 2005:128252 USPATFULL
TI Halogenated solvent remediation
IN Sorenson, Kent S. JR., Windsor, CO, UNITED STATES
PI US 2005109696 A1 20050526
AI US 2004-931800 A1 20040831 (10)
RLI Continuation-in-part of Ser. No. US 2001-895430, filed on 29 Jun 2001,
GRANTED, Pat. No. US 6783678

PRAI US 2000-214957P 20000629 (60)
 US 2000-233414P 20000918 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1537
 INCL INCLM: 210/610.000
 INCLS: 210/747.000
 NCL NCLM: 210/610.000
 NCLS: 210/747.000
 IC [7]
 ICM C02F003-00
 IPCI C02F0003-00 [ICM,7]
 IPCR B09C0001-00 [I,C*]; B09C0001-00 [I,A]; B09C0001-10 [I,C*];
 B09C0001-10 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 11 USPATFULL on SIN
 AN 2005:75279 USPATFULL
 TI Methods for remediating materials contaminated with
 halogenated aromatic compounds
 IN Fennell, Donna E., North Brunswick, NJ, UNITED STATES
 Haggblom, Max M., New York, NY, UNITED STATES
 Zinder, Stephen H., Ithaca, NY, UNITED STATES
 Nijenhuis, Ivonne, Leipzig, GERMANY, FEDERAL REPUBLIC OF
 PI US 2005064576 A1 20050324
 AI US 2004-828781 A1 20040421 (10)
 PRAI US 2003-464348P 20030422 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 849
 INCL INCLM: 435/262.500
 NCL NCLM: 435/262.500
 IC [7]
 ICM C12S001-00
 IPCI C12S0001-00 [ICM,7]
 IPCR C12S0001-00 [I,C*]; C12S0001-00 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 11 USPATFULL on SIN DUPLICATE 3
 AN 2004:203426 USPATFULL
 TI Electron donors for chlorinated solvent source area bioremediation
 IN Sorenson, Kent S., JR., Idaho Falls, ID, UNITED STATES
 Wilke, Wayne H., Stilwell, KS, UNITED STATES
 PA SRP TECHNOLOGIES, INC. (U.S. corporation)
 JRW BIOREMEDIATION, LLC (U.S. corporation)
 PI US 2004157317 A1 20040812
 US 7045339 B2 20060516
 AI US 2003-645332 A1 20030820 (10)
 PRAI US 2002-404728P 20020820 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1628
 INCL INCLM: 435/262.500
 NCL NCLM: 435/262.500
 NCLS: 210/610.000; 210/611.000; 210/631.000; 210/719.000; 210/757.000;
 435/262.000
 IC [7]
 ICM C12S001-00
 IPCI C12S0001-00 [ICM,7]
 IPCI-2 C12S0001-00 [I,A]; C02F0001-70 [I,A]; B09C0001-08 [I,A];
 B09C0001-00 [I,C*]
 IPCR B09C0001-10 [I,C*]; B09C0001-10 [I,A]; C02F0001-68 [I,C*];

C02F0001-68 [I,A]; C02F0003-04 [I,C*]; C02F0003-04 [I,A];
C12S0005-00 [I,C*]; C12S0005-00 [I,A]; C12S0001-00 [I,A];
B09C0001-00 [I,C]; B09C0001-08 [I,A]; C02F0001-70 [I,C];
C02F0001-70 [I,A]; C12S0001-00 [I,C]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 11 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
AN 2005-04335 BIOTECHDS
TI New biologically pure bacterial culture possessing all of identifying
characteristics of Dehalococcoides isolates BAV1, useful for
remediating a substrate comprising a halogenated
compound;

Dehalococcoides sp. for use in soil decontamination and
sediment decontamination

AU LOEFFLER F
PA GEORGIA TECH RES CORP
PI WO 2004110933 23 Dec 2004
AI WO 2004-US19000 10 Jun 2004
PRAI US 2003-477799 10 Jun 2003; US 2003-477799 10 Jun 2003
DT Patent
LA English
OS WPI: 2005-066151 [07]

L7 ANSWER 8 OF 11 USPATFULL on STN
AN 2004:242090 USPATFULL
TI Nucleic acid fragments for the identification of dechlorinating bacteria
IN Ebersole, Richard C., Wilmington, DE, United States
Hendrickson, Edwin R., Hockessin, DE, United States
PA E. I. du Pont de Nemours and Company, Wilmington, DE, United States
(U.S. corporation)
PI US 6797817 B1 20040928
AI US 2000-548998 20000414 (9)
PRAI US 1999-129511P 19990415 (60)
DT Utility
FS GRANTED
LN.CNT 1666
INCL INCLM: 536/024.300
INCLS: 435/243.000; 435/262.500
NCL NCLM: 536/024.300
NCLS: 435/243.000; 435/262.500
IC [7]
ICM C07H021-04
IPCI C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C*]
IPCR C12Q0001-68 [I,C*]; C12Q0001-68 [I,A]
EXF 536/24.3; 435/243; 435/262.5

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 11 ANABSTR COPYRIGHT 2008 RSC on STN DUPLICATE 4
AN 66(26):H222 ANABSTR
TI Dehalococcoides ethenogenes strain 195 reductively dechlorinates
diverse chlorinated aromatic pollutants.
AU Fennell, D. E.; Nijenhuis, I.; Wilson, S. F.; Zinder, S. H.; Haeggblom, M.
M. (fennell@envsci.rutgers.edu, Dept. Environ. Sci., Rutgers Univ., New
Brunswick, NJ 08901, USA)
SO Environ. Sci. Technol. (2004) 38(7), 2075-2081
CODEN: ESTHAG ISSN: 0013-936X
DT Journal
LA English

L7 ANSWER 10 OF 11 USPATFULL on STN DUPLICATE 5
AN 2003:112869 USPATFULL
TI Nucleic acid fragments for the identification of dechlorinating bacteria

IN Ebersole, Richard C., Wilmington, DE, UNITED STATES
 Hendrickson, Edwin R., Hockessin, DE, UNITED STATES
 PI US 2003077601 A1 20030424
 US 6894156 B2 20050517
 AI US 2002-61071 A1 20020129 (10)
 RLI Continuation-in-part of Ser. No. US 2000-548998, filed on 14 Apr 2000,
 PENDING
 PRAI US 1999-129511P 19990415 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2812
 INCL INCLM: 435/006.000
 INCLS: 435/252.300; 435/069.100; 435/320.100; 536/023.200
 NCL NCLM: 536/024.100; 435/006.000
 NCLS: 435/243.000; 435/069.100; 435/252.300; 435/320.100; 536/023.200
 IC [7]
 ICM C12Q001-68
 ICS C07H021-04; C12N001-20; C12N015-74; C12P021-02
 IPCI C12Q0001-68 [ICM,7]; C07H0021-04 [ICS,7]; C07H0021-00 [ICS,7,C*];
 C12N0001-20 [ICS,7]; C12N0015-74 [ICS,7]; C12P0021-02 [ICS,7]
 IPCI-2 C07H0021-04 [ICM,7]; C07H0021-00 [ICM,7,C*]; C12N0001-00 [ICS,7]
 IPCR C12Q0001-68 [I,C*]; C12Q0001-68 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 11 OF 11 USPATFULL on STN DUPLICATE 6
 AN 2002:35954 USPATFULL
 TI Halogenated solvent remediation
 IN Sorenson, Kent S., Idaho Falls, ID, UNITED STATES
 PA Bechtel BWXT Idaho, LLC (non-U.S. corporation)
 PI US 2002020665 A1 20020221
 US 6783678 B2 20040831
 AI US 2001-895430 A1 20010629 (9)
 PRAI US 2000-214957P 20000629 (60)
 US 2000-233414P 20000918 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1048
 INCL INCLM: 210/601.000
 INCLS: 252/182.120; 210/610.000
 NCL NCLM: 210/610.000; 210/601.000
 NCLS: 435/262.500; 252/182.120
 IC [7]
 ICM C02F003-00
 ICS C09K003-00
 IPCI C02F0003-00 [ICM,7]; C09K0003-00 [ICS,7]
 IPCI-2 C02F0003-00 [ICM,7]
 IPCR B09C0001-00 [I,C*]; B09C0001-00 [I,A]; B09C0001-10 [I,C*];
 B09C0001-10 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 13

L8 5 L3

=> rem dup 18

DUP IS NOT VALID HERE

The DELETE command is used to remove various items stored by the system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left,

right, or simultaneous left and right truncation.

Examples:

DELETE BIO?/Q	- delete query names starting with BIO
DELETE ?DRUG/A	- delete answer set names ending with DRUG
DELETE ?ELEC?/L	- delete L-number lists containing ELEC
DELETE ANTICOG/S	- delete SDI request
DELETE ENZYME/B	- delete batch request
DELETE .MYCLUSTER	- delete user-defined cluster
DELETE .MYFORMAT	- delete user-defined display format
DELETE .MYFIELD	- delete user-defined search field
DELETE NAMELIST MYLIST	- delete mailing list

To delete an ordered document or an offline print, enter its number.

Examples:

DELETE P123001C	- delete print request
DELETE D134002C	- delete document order request

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

DELETE L21	- delete a single L-number
DELETE L3-L6	- delete a range of L-numbers
DELETE LAST 4	- delete the last 4 L-numbers
DELETE L33-	- delete L33 and any higher L-number
DELETE -L55	- delete L55 and any lower L-number
DELETE L2-L6 RENUMBER	- delete a range of L-numbers and renumber remaining L-numbers
DELETE RENUMBER	- renumber L-numbers after deletion of intermediate L-numbers

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

DELETE SAVED/Q	- delete all saved queries
DELETE SAVED/A	- delete all saved answer sets
DELETE SAVED/L	- delete all saved L-number lists
DELETE SAVED	- delete all saved queries, answer sets, and L-number lists
DELETE SAVED/S	- delete all SDI requests
DELETE SAVED/B	- delete all batch requests
DELETE CLUSTER	- delete all user-defined clusters
DELETE FORMAT	- delete all user-defined display formats
DELETE FIELD	- delete all user-defined search fields
DELETE SELECT	- delete all E-numbers
DELETE HISTORY	- delete all L-numbers and restart the session at L1

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the multifile SDI, enter DELETE and the name of the component.

=> dup rem l8
 PROCESSING COMPLETED FOR L8
 L9 4 DUP REM L8 (1 DUPLICATE REMOVED)

=> d 19 1-4

L9 ANSWER 1 OF 4 IFIPAT COPYRIGHT 2008 IFI on STN DUPLICATE 1
 AN 11449219 IFIPAT;IFIUDB;IFICDB
 TI DEHALOCOCCOIDES ISOLATE FOR BIOREMEDIATION
 IN Loeffler Frank
 PA Georgia Tech Research Corp (20946)
 PI US 2007099284 A1 20070503
 AI US 2004-559993 20040610
 WO 2004-US19000 20040610
 20051207 PCT 371 date
 20051207 PCT 102(e) date
 PRAI US 2003-477799P 20030610 (Provisional)
 FI US 2007099284 20070503
 DT Utility; Patent Application - First Publication
 FS CHEMICAL
 APPLICATION
 ED Entered STN: 9 May 2007
 Last Updated on STN: 13 Jun 2007
 CLMN 14
 GI 3 Figure(s).
 FIG. 1A-C depicts micrographs of isolate BAV1 using (A)
 epifluorescence and (B-C) scanning electron microscopy.
 FIG. 2 depicts Terminal Restriction Fragment Polymorphisms (TRFLP)
 digestion profiles of the PCR-amplified 16S rRNA gene from a culture of
 bacterium BAV1.
 FIG. 3A-B depicts (A) the increase in 16S rRNA gene copies as determined
 by real-time (RTM) PCR (closed circles) during the reductive
 dechlorination of VC (closed triangles) to ethene by a culture of
 bacterium BAV1, and (b) 16S rRNA gene copies of bacterium
 BAV1 after completely dechlorinating different amounts of VC.

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:272970 CAPLUS
 DN 144:325899
 TI Cloning and sequences of reductive dehalogenase genes from dechlorinating
 bacteria for use in bioremediation of pollutants
 IN Loeffler, Frank; Ritalahti, Kirsti M.; Krajmalnik-Brown, Rosa; Thompson,
 Ivy
 PA Regensis Bioremediation Products, USA
 SO PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006031997	A2	20060323	WO 2005-US33063	20050914
	WO 2006031997	A3	20070315		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				

IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

PRAI US 2004-609892P P 20040914

L9 ANSWER 3 OF 4 USPATFULL on STN
 AN 2005:75279 USPATFULL
 TI Methods for remediating materials contaminated with
 halogenated aromatic compounds
 IN Fennell, Donna E., North Brunswick, NJ, UNITED STATES
 Haggbloom, Max M., New York, NY, UNITED STATES
 Zinder, Stephen H., Ithaca, NY, UNITED STATES
 Nijenhuis, Ivonne, Leipzig, GERMANY, FEDERAL REPUBLIC OF
 PI US 2005064576 A1 20050324
 AI US 2004-828781 A1 20040421 (10)
 PRAI US 2003-464348P 20030422 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 849
 INCL INCLM: 435/262.500
 NCL NCLM: 435/262.500
 IC [7]
 ICM C12S001-00
 IPCI C12S0001-00 [ICM,7]
 IPCR C12S0001-00 [I,C*]; C12S0001-00 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 4 BIOTECHDS COPYRIGHT 2008 THE THOMSON CORP. on STN
 AN 2005-04335 BIOTECHDS
 TI New biologically pure bacterial culture possessing all of identifying
 characteristics of Dehalococcoides isolates BAV1,
 useful for remediating a substrate comprising a
 halogenated compound;
 Dehalococcoides sp. for use in soil decontamination and
 sediment decontamination
 AU LOEFFLER F
 PA GEORGIA TECH RES CORP
 PI WO 2004110933 23 Dec 2004
 AI WO 2004-US19000 10 Jun 2004
 PRAI US 2003-477799 10 Jun 2003; US 2003-477799 10 Jun 2003
 DT Patent
 LA English
 OS WPI: 2005-066151 [07]

=> FIL STNGUIDE
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
76.71	85.50

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 28, 2008 (20080328/UP).

=> d hist

(FILE 'HOME' ENTERED AT 12:09:23 ON 30 MAR 2008)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 12:17:26 ON 30 MAR 2008
SEA DEHALOCOCCOIDES AND REMEDIAT?

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2   FILE BIOTECHNO
13  FILE CABA
154 FILE CAPLUS
4   FILE CEABA-VTB
3   FILE DGENE
6   FILE DISSABS
10  FILE EMBASE
13  FILE ESBIODASE
3   FILE GENBANK
3   FILE IFIPAT
3   FILE LIFESCI
9   FILE MEDLINE
8   FILE PASCAL
2   FILE PROMT
16  FILE SCISEARCH
45  FILE TOXCENTER
19  FILE USPATFULL
5   FILE USPAT2
5   FILE WATER
2   FILE WPIDS
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L1  QUE DEHALOCOCCOIDES AND REMEDIAT?

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SEA L1 AND HALOGEN?

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L2  QUE L1 AND HALOGEN?
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SEA L2 AND BAV1
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L3 QUE L2 AND BAV1
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SEA L2 AND (CHLOROETHENE OR VINYL HALIDE OR HALOALKANE)
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1 FILE ESBIODBASE
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L4 QUE L2 AND (CHLOROETHENE OR VINYL HALIDE OR HALOALKANE)
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SEA L4 AND (VINYL CHLORIDE OR DICHLOROETHENE)
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1 FILE SCISEARCH
2 FILE TOXCENTER
9 FILE USPATFULL
4 FILE USPAT2
1 FILE WPIDS
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L5 QUE L4 AND (VINYL CHLORIDE OR DICHLOROETHENE)
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FILE 'ANABSTR, BIOENG, BIOSIS, BIOTECHDS, CAPLUS, EMBASE, ESBIODBASE,
IFIPAT, LIFESCI, MEDLINE, PASCAL, SCISEARCH, TOXCENTER, USPATFULL,
USPAT2' ENTERED AT 12:23:06 ON 30 MAR 2008
L6 28 S L5
L7 11 DUP REM L6 (17 DUPLICATES REMOVED)

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L8 5 S L3
L9 4 DUP REM L8 (1 DUPLICATE REMOVED)

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.12	85.62

FULL ESTIMATED COST

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NEWS 2 JUN 06 EPFULL enhanced with 260,000 English abstracts
NEWS 3 JUN 06 KOREAPAT updated with 41,000 documents
NEWS 4 JUN 13 USPATFULL and USPAT2 updated with 11-character
patent numbers for U.S. applications
NEWS 5 JUN 19 CAS REGISTRY includes selected substances from
web-based collections
NEWS 6 JUN 25 CA/CAPLUS and USPAT databases updated with IPC
reclassification data
NEWS 7 JUN 30 AEROSPACE enhanced with more than 1 million U.S.
patent records
NEWS 8 JUN 30 EMBASE, EMBAL, and LEMBASE updated with additional
options to display authors and affiliated
organizations
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Assistant and BLAST plug-in
NEWS 10 JUN 30 STN AnaVist enhanced with database content from EPFULL
NEWS 11 JUL 28 CA/CAPLUS patent coverage enhanced
NEWS 12 JUL 28 EPFULL enhanced with additional legal status
information from the EPOline Register
NEWS 13 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
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NEWS 15 AUG 01 INPADOCDB and INPAFAMDB coverage enhanced
NEWS 16 AUG 13 CA/CAPLUS enhanced with printed Chemical Abstracts
page images from 1967-1998
NEWS 17 AUG 15 CAOLD to be discontinued on December 31, 2008
NEWS 18 AUG 15 CAPLUS currency for Korean patents enhanced
NEWS 19 AUG 27 CAS definition of basic patents expanded to ensure
comprehensive access to substance and sequence
information
NEWS 20 SEP 18 Support for STN Express, Versions 6.01 and earlier,

to be discontinued

NEWS 21 SEP 25 CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances

NEWS 22 SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced

NEWS 23 SEP 29 IFICLS enhanced with new super search field

NEWS 24 SEP 29 EMBASE and EMBAL enhanced with new search and display fields

NEWS 25 SEP 30 CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents

NEWS 26 OCT 07 EPFULL enhanced with full implementation of EPC2000

NEWS 27 OCT 07 Multiple databases enhanced for more flexible patent number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 23:22:32 ON 12 OCT 2008

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

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SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 23:24:56 ON 12 OCT 2008

69 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s Dehalococcoides and bioremedi? and (DCE or dichlorethene) and (vinyl chloride or vinyl bromide)

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2	FILE AQUALINE
1	FILE AQUASCI
3	FILE BIOENG
5	FILE BIOSIS
10	FILE BIOTECHABS
10	FILE BIOTECHDS
1	FILE BIOTECHNO


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13  FILE CABA
39  FILE CAPLUS
1   FILE CEABA-VTB
5   FILE DISSABS
5   FILE EMBASE
3   FILE ESBIOBASE
1   FILE FSTA
2   FILE IFIPAT
4   FILE LIFESCI
3   FILE MEDLINE
44 FILES SEARCHED...
8   FILE PASCAL
6   FILE SCISEARCH
21  FILE TOXCENTER
15  FILE USPATFULL
6   FILE USPAT2
1   FILE WATER
3   FILE WPIDS
3   FILE WPINDEX

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26 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L1 QUE DEHALOCOCCOIDES AND BIOREMEDI? AND (DCE OR DICHLORETHENE) AND (VINYL C
HLORIDE OR VINYL BROMIDE)

=> s l1 and electron acceptor

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1   FILE CABA
3   FILE CAPLUS
2   FILE DISSABS
1   FILE IFIPAT
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50 FILES SEARCHED...
2   FILE TOXCENTER
14  FILE USPATFULL
6   FILE USPAT2
2   FILE WPIDS
2   FILE WPINDEX

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13 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L2 QUE L1 AND ELECTRON ACCEPTOR

=> file biosis biotechabs biotechds caba caplus dissabs ifipat pascal toxcenter
uspatfull uspat2

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.90	4.74

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FILE 'USPAT2' ENTERED AT 23:28:34 ON 12 OCT 2008
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=> s l2
L3 38 L2

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 27 DUP REM L3 (11 DUPLICATES REMOVED)

=> s l4 and haloalkane?
L5 1 L4 AND HALOALKANE?

=> d l5 1

L5 ANSWER 1 OF 1 USPATFULL on STN
AN 2007:114213 USPATFULL
TI Dehalococcoides isolate for bioremediation
IN Loeffler, Frank, Atlanta, GA, UNITED STATES
PA GEORGIA TECH RESEARCH CORPORATION, ATLANTA, GA, UNITED STATES,
30332-0415 (U.S. corporation)
PI US 20070099284 A1 20070503
AI US 2004-559993 A1 20040610 (10)
WO 2004-US19000 20040610
20051207 PCT 371 date
PRAI US 2003-477799P 20030610 (60)
DT Utility
FS APPLICATION
LN.CNT 647
INCL INCLM: 435/252.300
INCLS: 435/262.500; 588/300.000; 588/406.000
NCL NCLM: 435/252.300
NCLS: 435/262.500; 588/300.000; 588/406.000
IC IPCI A62D0003-02 [I,A]; C12N0001-20 [I,A]
IPCR A62D0003-00 [I,C]; A62D0003-02 [I,A]; C12N0001-20 [I,C];
C12N0001-20 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s l4 and BAV1
L6 4 L4 AND BAV1

=> d l6 1-4

L6 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
AN 2003:532385 BIOSIS
DN PREV200300534302
TI Isolation of a vinyl chloride-respiring population in
pure culture.
AU He, J. [Reprint Author]; Loeffler, F. E. [Reprint Author]
CS Georgia Institute of Technology, Atlanta, GA, USA
SO Abstracts of the General Meeting of the American Society for Microbiology,
(2003) Vol. 103, pp. Q-016.
<http://www.asmusa.org/mtgsrc/generalmeeting.htm>. cd-rom.
Meeting Info.: 103rd American Society for Microbiology General Meeting.
Washington, DC, USA. May 18-22, 2003. American Society for Microbiology.
ISSN: 1060-2011 (ISSN print).
DT Conference; (Meeting)
LA English
ED Entered STN: 12 Nov 2003
Last Updated on STN: 12 Nov 2003

L6 ANSWER 2 OF 4 USPATFULL on STN
AN 2007:114213 USPATFULL
TI Dehalococcoides isolate for bioremediation
IN Loeffler, Frank, Atlanta, GA, UNITED STATES
PA GEORGIA TECH RESEARCH CORPORATION, ATLANTA, GA, UNITED STATES,
30332-0415 (U.S. corporation)
PI US 20070099284 A1 20070503
AI US 2004-559993 A1 20040610 (10)
WO 2004-US19000 20040610
20051207 PCT 371 date
PRAI US 2003-477799P 20030610 (60)
DT Utility
FS APPLICATION
LN.CNT 647
INCL INCLM: 435/252.300
INCLS: 435/262.500; 588/300.000; 588/406.000
NCL NCLM: 435/252.300
NCLS: 435/262.500; 588/300.000; 588/406.000
IC IPCI A62D0003-02 [I,A]; C12N0001-20 [I,A]
IPCR A62D0003-00 [I,C]; A62D0003-02 [I,A]; C12N0001-20 [I,C];
C12N0001-20 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 4 USPATFULL on STN
AN 2006:166986 USPATFULL
TI Gene probes for the selective detection of microorganisms that
reductively dechlorinate polychlorinated biphenyl compounds
IN Sowers, Kevin R., Baltimore, MD, UNITED STATES
Fagervoid, Sonja K., Baltimore, MD, UNITED STATES
Watts, Joy E.M., Baltimore, MD, UNITED STATES
May, Harold D., Pleasant, SC, UNITED STATES
PI US 20060141492 A1 20060629
AI US 2005-190801 A1 20050727 (11)
PRAI US 2004-591514P 20040727 (60)
DT Utility
FS APPLICATION
LN.CNT 1192
INCL INCLM: 435/006.000

INCLS: 435/252.300; 536/024.100; 435/262.500
 NCL NCLM: 435/006.000
 NCLS: 435/252.300; 435/262.500; 536/024.100
 IC IPCI C12Q0001-68 [I,A]; C07H0021-04 [I,A]; C07H0021-00 [I,C*];
 C12N0001-20 [I,A]; B09C0001-10 [I,A]
 IPCR C12Q0001-68 [I,A]; B09C0001-10 [I,C]; B09C0001-10 [I,A];
 C07H0021-00 [I,C]; C07H0021-04 [I,A]; C12N0001-20 [I,C];
 C12N0001-20 [I,A]; C12Q0001-68 [I,C]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 4 USPATFULL on STN
 AN 2005:75279 USPATFULL
 TI Methods for remediating materials contaminated with halogenated aromatic
 compounds
 IN Fennell, Donna E., North Brunswick, NJ, UNITED STATES
 Haggbloom, Max M., New York, NY, UNITED STATES
 Zinder, Stephen H., Ithaca, NY, UNITED STATES
 Nijenhuis, Ivonne, Leipzig, GERMANY, FEDERAL REPUBLIC OF
 PI US 20050064576 A1 20050324
 AI US 2004-828781 A1 20040421 (10)
 PRAI US 2003-464348P 20030422 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 849
 INCL INCLM: 435/262.500
 NCL NCLM: 435/262.500
 IC [7]
 ICM C12S001-00
 IPCI C12S0001-00 [ICM,7]
 IPCR C12S0001-00 [I,C*]; C12S0001-00 [I,A]
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	42.09	46.83

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Oct 10, 2008 (20081010/UP).

=> d l6 ab
 YOU HAVE REQUESTED DATA FROM FILE 'BIOSIS, USPATFULL' - CONTINUE? (Y)/N:y

L6 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
 AB About half of the hazardous waste sites on the U.S. Environmental
 Protection Agency's Final National Priority List for 2002 were
 contaminated with tetrachloroethene (PCE) and/or trichloroethene (TCE).
 Dichloroethenes (DCEs) and vinyl chloride (VC) often
 accumulate in contaminated aquifers in which PCE or TCE undergo incomplete
 reductive dechlorination. The accumulation of VC is of particular concern
 because VC is a proven human carcinogen. Organisms capable of using
 polychlorinated ethenes as terminal electron acceptors in their energy
 metabolism (e.g., chloridogenic populations) have been isolated over the
 last few years, however, no VC-respiring isolates have been described. An

anaerobic VC-respiring population, designated as strain BAV1, was isolated from a PCE-to-ethene-dechlorinating microcosm obtained from the Bachman Road site, a PCE-contaminated aquifer in Oscoda, MI. 16S rRNA gene sequencing placed the isolate in the Pinellas group within the Dehalococcoides cluster. Strain BAV1 grew in defined mineral salts medium with VC as the only available electron acceptor. VC (0.83 mM, nominal concentration) was dechlorinated at rates of up to 57.9 μ moles/L/d to ethene, which was not further transformed. Hydrogen was the required electron donor, and the isolate also dechlorinated vinyl bromide, cis-DCE, trans-DCE, 1,1-DCE and 1,2-dichloroethane to ethene. cis-DCE, trans-DCE, and 1,1-DCE (approx 0.8 mM each) were dechlorinated at rates of up to 61.9, 50.5, and 56.0 μ moles/L/d, respectively. Dehalococcoides 16S rRNA gene-targeted real-time PCR confirmed chloridogenic growth, and demonstrated that about twice as much biomass was produced when strain BAV1 was grown with cis-DCE compared to growth with VC. This finding indicates that the new isolate captures the energy released from both reductive dechlorination steps. Strain BAV1 failed to grow with PCE and TCE but cometabolized both compounds in the presence of a growth-supporting chloroethene. Strain BAV1 is the first isolate using the priority pollutant VC as a respiratory electron acceptor, and has potential applications in engineered bioremediation approaches.

=> d 16 1

YOU HAVE REQUESTED DATA FROM FILE 'BIOSIS, USPATFULL' - CONTINUE? (Y)/N:y

L6 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
 AN 2003:532385 BIOSIS
 DN PREV200300534302
 TI Isolation of a vinyl chloride-respiring population in
 pure culture.
 AU He, J. [Reprint Author]; Löffler, F. E. [Reprint Author]
 CS Georgia Institute of Technology, Atlanta, GA, USA
 SO Abstracts of the General Meeting of the American Society for Microbiology,
 (2003) Vol. 103, pp. Q-016.
<http://www.asmsusa.org/mtgsrc/generalmeeting.htm>. cd-rom.
 Meeting Info.: 103rd American Society for Microbiology General Meeting.
 Washington, DC, USA. May 18-22, 2003. American Society for Microbiology.
 ISSN: 1060-2011 (ISSN print).
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 12 Nov 2003
 Last Updated on STN: 12 Nov 2003

=> d 16 1 ab

YOU HAVE REQUESTED DATA FROM FILE 'BIOSIS, USPATFULL' - CONTINUE? (Y)/N:y

L6 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
 AB About half of the hazardous waste sites on the U.S. Environmental
 Protection Agency's Final National Priority List for 2002 were
 contaminated with tetrachloroethene (PCE) and/or trichloroethene (TCE).

Dichloroethenes (DCEs) and vinyl chloride (VC) often accumulate in contaminated aquifers in which PCE or TCE undergo incomplete reductive dechlorination. The accumulation of VC is of particular concern because VC is a proven human carcinogen. Organisms capable of using polychlorinated ethenes as terminal electron acceptors in their energy metabolism (e.g., chloridogenic populations) have been isolated over the last few years, however, no VC-respiring isolates have been described. An anaerobic VC-respiring population, designated as strain BAV1, was isolated from a PCE-to-ethene-dechlorinating microcosm obtained from the Bachman Road site, a PCE-contaminated aquifer in Oscoda, MI. 16S rRNA gene sequencing placed the isolate in the Pinellas group within the Dehalococcoides cluster. Strain BAV1 grew in defined mineral salts medium with VC as the only available electron acceptor. VC (0.83 mM, nominal concentration) was dechlorinated at rates of up to 57.9 μ moles/L/d to ethene, which was not further transformed. Hydrogen was the required electron donor, and the isolate also dechlorinated vinyl bromide, cis-DCE, trans-DCE, 1,1-DCE and 1,2-dichloroethane to ethene. cis-DCE, trans-DCE, and 1,1-DCE (approx 0.8 mM each) were dechlorinated at rates of up to 61.9, 50.5, and 56.0 μ moles/L/d, respectively. Dehalococcoides 16S rRNA gene-targeted real-time PCR confirmed chloridogenic growth, and demonstrated that about twice as much biomass was produced when strain BAV1 was grown with cis-DCE compared to growth with VC. This finding indicates that the new isolate captures the energy released from both reductive dechlorination steps. Strain BAV1 failed to grow with PCE and TCE but cometabolized both compounds in the presence of a growth-supporting chloroethene. Strain BAV1 is the first isolate using the priority pollutant VC as a respiratory electron acceptor, and has potential applications in engineered bioremediation approaches.

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